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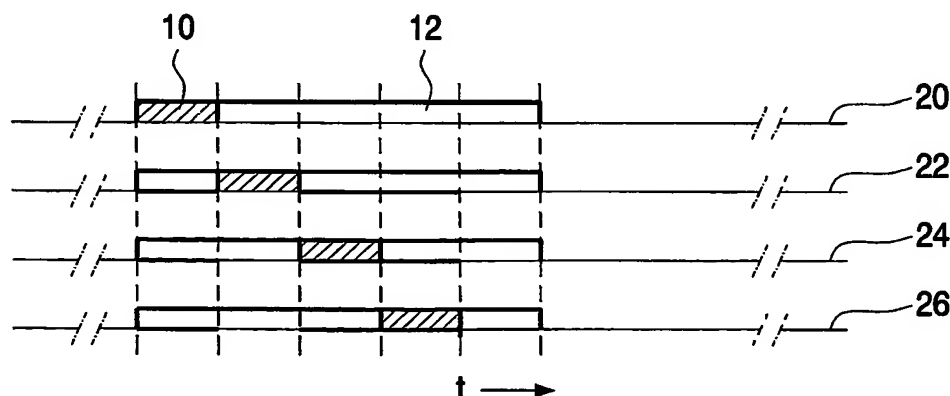
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(54) Title: APPARATUS ENABLED FOR OPTIMIZING SPECTRAL EFFICIENCY OF A WIRELESS LINK



(57) Abstract: An apparatus simultaneously transmits at least a first signal and a second signal. Each one of those signals comprises a data sequence and a training sequence. The apparatus is arranged to simultaneously transmit a training sequence of the first signal and a data sequence of the second signal for improving the spectral efficiency and thus the data throughput.